

RETENTION OF TREES IN A RIPARIAN MANAGEMENT ZONE – ALTERNATIVE EXAMPLES

Example 1

The woodlot licence holder will retain the post-harvest basal area in a riparian management zone (RMZ) specified in Table [#] unless exempted by the district manager. Table [#] retention is not applicable where harvest in the riparian management zone is required as part of a crossing. The standing trees will be representative of the physical structure of the riparian management zone as it was before harvesting. To the extent practicable, all non-merchantable trees and understorey vegetation will be retained within 5 meters of the channel or wetland where there is no reserve zone.

See the Practices Requirements section below for minimum for riparian reserve and management zones widths.

Table [#]: RMZ Basal Area retention by Riparian Class

Riparian Class	% Basal Area to be Retained in RMZ	Management Intent	Retained Species
S2 stream <i>(Fish bearing, 5m to 20m width)</i>	20-100	Maintain RRZ Conserve wildlife and riparian habitat	[x,y,z]
S3 stream <i>(Fish bearing, 1.5m to 5m width)</i>	20-100		
S4 stream <i>(Fish bearing, <1.5m width)</i>	10-100	Maintain bank integrity Minimize Debris Transportation Conserve wildlife and riparian habitat	
S5 stream <i>(Non-fish bearing, >3m width)</i>	10-100		
S6 stream <i>(Non-fish bearing, ≤3m width)</i>	0-100		
W4 wetland <i>(0.5 to 1 hectare)</i>	10-100	Maintain RRZ Conserve wildlife and riparian habitat	

Levels of retention above minimums will be prescribed based upon factors such as:

- Physical features – slope, aspect, soil
- Stream morphology and stream bank characteristics
- Downstream values
- Length of stream with altered riparian area from previous harvesting, considering both sides of stream
- Length of stream in a block and size of harvest area

- Existing forest cover, wildlife trees, and understorey vegetation in riparian area
- Wind firmness of retained trees, existing and potential coarse woody debris
- Use of streamside area by wildlife

Determination of riparian retention requires a length measurement to derive the percent basal area retained. The RMZ area within the harvest block or a minimum RMZ area equivalent to a 50-meter stream length will be used to determine the required basal area retention.

Example 2

Unless exempted or as provided for under WLPPR section 40, the following describes the retention of trees in a riparian management zone (RMZ) following timber harvesting. Retention percents are based on the pre-harvest stand density. Retention within the RMZ will be representative of the pre-harvest stand and favour trees with valuable wildlife tree characteristics including signs of internal decay, trees with forks, large rotten branches, loose or cracked bark, recent scars, active wildlife use, existing cavities, nest trees, veteran trees and other large windfirm trees with poor form for sawlogs.

To the extent practicable, all non-merchantable trees and understory vegetation will be retained within 5 meters of the channel or wetland where there is no reserve zone.

RIPARIAN CLASS	INTENT OF MANAGEMENT	SPECIES TO RETAIN	RETENTION LEVEL POST HARVEST (stems/ha)
S2: Fish-bearing or Community Watershed Width: 5m - 20m	<ul style="list-style-type: none"> - Maintain the integrity of the RRZ. - Assist in maintaining wildlife attributes within the RMA, such as wildlife tree cover, nesting and perching habitat and diversity of vertical forest structure. 	<i>[x, y, z]</i>	25 - 100% of pre-harvest stand
S3: Fish bearing or Community Watershed Width: 1.5m - 5.0m	<ul style="list-style-type: none"> - Maintain the integrity of the RRZ. - Assist in maintaining wildlife attributes within the RMA, such as wildlife tree cover, nesting and perching habitat and diversity of vertical forest structure. 		25 - 100% of pre-harvest stand
S4: Fish bearing or Community Watershed Width: ≤ 1.5m	<ul style="list-style-type: none"> - Maintain stream bank integrity. - Minimize introduction and transport of deleterious material. - Provide shaded cover, CWD and litter inputs. 		25 - 100% of pre-harvest stand
S5: Non-fish bearing Width: ≥ 3m	<ul style="list-style-type: none"> - Maintain stream bank integrity. - Minimize introduction and transport of deleterious material. - Provide litter inputs. 		10 - 100% of pre-harvest stand
S6 Non-fish bearing Width: ≤ 3m	<ul style="list-style-type: none"> - Maintain stream bank integrity. - Minimize introduction and transport of deleterious material to lower reaches of stream. - Provide litter inputs. 		0 - 100% of pre-harvest stand
Lakes and Wetlands Classification as per WLPPR sec 37 and 38.	<ul style="list-style-type: none"> - Maintain the integrity of the RRZ, where applicable. - Assist in maintaining wildlife attributes within the RMA, such as wildlife tree cover, nesting and perching habitat and diversity of vertical forest structure. 		25 - 100% of pre-harvest stand